EML2322L Competition Evaluation

Group Number:									
			1^{st}	Run		2 nd	^d Run		
Time to complete required targets:									
Number of felled targets:									
Note: teams receive a project most bottles in the quickest tin slowest time receives 0% bond	grade bon ne receives us, and all	us accord s a 10% p other tear	ling to th roject b ns recei	teir comp onus; the ve a bon	petition pe team whi us propor	erforman ich topp tional to	nce. The tec les the fewe. > their comp	ım which fells st bottles in th etition rankin	the e g.
(0: Unacceptable 20: F	Poor 40:	Below	Avera	ge 60:	Satisfac	tory	80: Good	100: Excel	lent)
1. Project completed acco	ording to (Size: 10) instruct)% // POs: 20	ions li : 20% // 40	sted for BOM: 4 60	the assi 0% // ECI 80	gnmer Ns: 30% 100	nt (20%)		
2. Attention to detail, dev (Use well design	velopmer ned, machin	nt of tech ned compo 20	nnical a onents & 40	ability, & avoid b 60	quality o and-aids 1 80	of projetike card 100	ect visuall dboard & du	y (20%) ict tape)	
3. Overall effectiveness /	success	of proje	ct (20%	6) required	target)	100			
	0	20	40	60	80	100			
4. Design reports (40%)									
5. Project completed with	nin the al	llocated (NO = 10	\$50 bu 0% proj YES	dget ect grade / NO	e penalty)				
6. Respect for laboratory (Disassemble project, clea	resource in out lab b 0	es & staf bin, clean 25	f; proj work ar 5	ect disa ea, and si 0 7	ssembly ubmit tool 5 10	v & clea lbox che 00	anup (-109 eck-off sheet	%) t)	

Overall Project Grade:

Group number: _____

 (0: Unacceptable 20: Poor 40: Below Average 60: Satisfactory 80: Good 100: Excellent) (D)
 (D)
 (C)
 (B)
 (A)

 1. Did the team correctly wire the robot within 5min according to the wiring schematic? (-20%) YES / NO
 YES / NO

2. Does the team's design fit completely within the 24" x 24" starting area? (10%)

YES / NO

3. Are POs submitted and do they include <u>all purchased materials</u> used on the robot (more than 6' of 80-20, material for hubs and motor mounts, sheetmetal, wood, PVC, etc.)? Are the sizes and lengths noted on the POs correct? If the team exceeded the allocated budget, please note it on the other side of this grading sheet. (20%)

Eval. rubric: missing PO: -20% // *improperly completed PO: -10% each*

0 20 40 60 80 100 OVER BUDGET

4. Are assembly drawings and BOM clear, complete and accurate? Are exploded views used where necessary to clearly identify individual components? Does the BOM include unique, sequential balloons and leaders? Does the BOM include <u>ALL parts used on the robot</u> including fasteners, string and tape? *Verify the BOM contains proper motor hardware and wheel hub screws, including quantities. While examining the robot, point to three items and ask the group to show you where they are on the BOM & assembly drawings. If nothing else stands out as lacking, I suggest (1) motor mounting hardware (i.e. M4x0.7 for Densos, M6x1.0 for Entstorts, 10-32 for Molons, etc.), (2) torque transmission fasteners (i.e. M8x1.25 nuts for Entstorts, 10-24 set screws for Densos, etc.) and (3) a frame connection bracket. (40%)*

Eval. rubric: missing or incorrect item: -5 to -10% each

0 20 40 60 80 100

5. Were ECNs used to document changes during the prototyping phase of the project? Are the ECNs complete and clear? Are original and updated part drawings submitted with each ECN? Were ECNs signed by a TA within one week of being initiated? (30%)

Eval. rubric: late ECN: -5% // missing ECN: -20% // improperly completed ECN: -10% each

0 20 40 60 80 100

Grader's notes: *** *PLEASE BE COMPASSIONATE, BUT THOROUGH.**** *Place a small dot below the score you think is appropriate and I will check the team's paperwork when I grade DR4. If unsure about a grade assignment, place a question mark to the right of the scoring matrix for that grade and consult me or a senior course TA.*